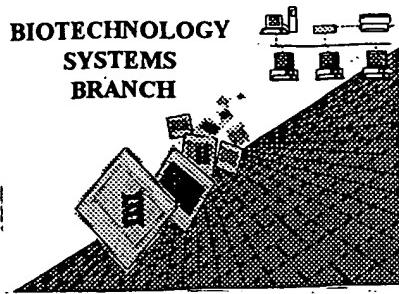


0590
0103



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/014485
Source: SIPK
Date Processed by STIC: 1/4/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

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3. Hand Carry directly to:

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Or

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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,485

DATE: 01/04/2002
TIME: 10:08:54

Input Set : A:\ES.txt
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pp. 56

**Does Not Comply
Corrected Diskette Needed**

7 <110> APPLICANT: Cell Signaling Technology, Inc.
 10 COMB, Michael J.
 13 ZHANG, Hui
 16 TAN, Yi
 22 <120> TITLE OF INVENTION: PRODUCTION OF MOTIF-SPECIFIC AND CONTEXT-INDEPENDENT
 23 ANTIBODIES USING PEPTIDE LIBRARIES AS ANTIGENS
 29 <130> FILE REFERENCE: CST-138 CIP2
 35 <140> CURRENT APPLICATION NUMBER: US/10/014,485
 35 <141> CURRENT FILING DATE: 2001-11-13
 35 <150> PRIOR APPLICATION NUMBER: US 09/148,712
 38 <151> PRIOR FILING DATE: 1998-09-04
 44 <150> PRIOR APPLICATION NUMBER: US 09/535,364
 47 <151> PRIOR FILING DATE: 2000-03-24
 53 <160> NUMBER OF SEQ ID NOS: 145
 59 <170> SOFTWARE: PatentIn version 3.1
 65 <210> SEQ ID NO: 1
 68 <211> LENGTH: 14
 71 <212> TYPE: PRT
 74 <213> ORGANISM: Homo sapiens
 80 <220> FEATURE:
 83 <221> NAME/KEY: MOD_RES
 86 <222> LOCATION: (9)..(9)
 89 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 9 is phosphorylated
 96 <400> SEQUENCE: 1
 100 Ile Lys Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro
 102 1 5 10
 108 <210> SEQ ID NO: 2
 111 <211> LENGTH: 14
 114 <212> TYPE: PRT
 117 <213> ORGANISM: Homo sapiens
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 126 <221> NAME/KEY: MOD_RES
 129 <222> LOCATION: (5)..(5)
 132 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
 139 <400> SEQUENCE: 2
 143 Asp Ala Ala Val Thr Pro Lys Lys Arg His Leu Ser Lys Cys
 145 1 5 10
 151 <210> SEQ ID NO: 3
 154 <211> LENGTH: 15
 157 <212> TYPE: PRT
 160 <213> ORGANISM: Homo sapiens
 166 <220> FEATURE:
 169 <221> NAME/KEY: MOD_RES
 172 <222> LOCATION: (8)..(8)
 175 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
 182 <400> SEQUENCE: 3
 186 Asp Thr Gln Ile Lys Arg Asn Thr Phe Val Gly Thr Pro Phe Cys

RAW SEQUENCE LISTING

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188 1 5 10 15
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197 <211> LENGTH: 10
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203 <213> ORGANISM: Homo sapiens
209 <220> FEATURE:
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215 <222> LOCATION: (5)..(5)
218 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
225 <400> SEQUENCE: 4
229 His Gln Val Val Thr Arg Trp Tyr Arg Cys
231 1 5 10
237 <210> SEQ ID NO: 5
240 <211> LENGTH: 10
243 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
252 <220> FEATURE:
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258 <222> LOCATION: (7)..(7)
261 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
268 <400> SEQUENCE: 5
272 His Gln Val Leu Met Lys Thr Val Cys Gly
274 1 5 10
280 <210> SEQ ID NO: 6
283 <211> LENGTH: 14
286 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
295 <220> FEATURE:
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301 <222> LOCATION: (7)..(7)
304 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
311 <400> SEQUENCE: 6
315 Ile Pro Ile Arg Val Tyr Thr His Glu Val Val Thr Leu Cys
317 1 5 10
323 <210> SEQ ID NO: 7
326 <211> LENGTH: 15
329 <212> TYPE: PRT
332 <213> ORGANISM: Homo sapiens
338 <220> FEATURE:
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344 <222> LOCATION: (8)..(8)
347 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
354 <400> SEQUENCE: 7
358 Gly Val Pro Val Arg Thr Tyr Thr His Glu Val Val Thr Leu Cys
360 1 5 10 15
366 <210> SEQ ID NO: 8
369 <211> LENGTH: 15
372 <212> TYPE: PRT
375 <213> ORGANISM: Homo sapiens

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PATENT APPLICATION: US/10/014,485 TIME: 10:08:54

Input Set : A:\ES.txt
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381 <220> FEATURE:
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387 <222> LOCATION: (8)..(8)
390 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
397 <400> SEQUENCE: 8
401 Asn Gln Val Phe Leu Gly Phe Thr Tyr Val Ala Pro Lys Lys Cys
403 1 5 10 15
409 <210> SEQ ID NO: 9
412 <211> LENGTH: 14
415 <212> TYPE: PRT
418 <213> ORGANISM: Homo sapiens
424 <220> FEATURE:
427 <221> NAME/KEY: MOD_RES
430 <222> LOCATION: (12)..(12)
433 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 12 is phosphorylated
440 <400> SEQUENCE: 9
444 Lys Glu His Met Met Asp Gly Val Thr Thr Arg Thr Phe Cys
446 1 5 10
452 <210> SEQ ID NO: 10
455 <211> LENGTH: 15
458 <212> TYPE: PRT
461 <213> ORGANISM: Homo sapiens
467 <220> FEATURE:
470 <221> NAME/KEY: MOD_RES
473 <222> LOCATION: (7)..(7)
476 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
483 <220> FEATURE:
486 <221> NAME/KEY: MOD_RES
489 <222> LOCATION: (9)..(9)
492 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 9 is phosphorylated
499 <400> SEQUENCE: 10
503 Asp His Thr Gly Phe Leu Thr Glu Tyr Val Ala Thr Arg Trp Cys
505 1 5 10 15
511 <210> SEQ ID NO: 11
514 <211> LENGTH: 15
517 <212> TYPE: PRT
520 <213> ORGANISM: Homo sapiens
526 <220> FEATURE:
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532 <222> LOCATION: (5)..(5)
535 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
542 <220> FEATURE:
545 <221> NAME/KEY: MOD_RES
548 <222> LOCATION: (9)..(9)
551 <223> OTHER INFORMATION: PHOSPHORYLATION; serine at position 9 is phosphorylated
558 <400> SEQUENCE: 11
562 Glu Leu Leu Pro Thr Pro Pro Leu Ser Pro Ser Arg Arg Ser Cys
564 1 5 10 15
570 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING

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573 <211> LENGTH: 17
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579 <213> ORGANISM: Homo sapiens
585 <220> FEATURE:
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591 <222> LOCATION: (10)..(10)
594 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 10 is phosphorylated
601 <220> FEATURE:
604 <221> NAME/KEY: MOD_RES
607 <222> LOCATION: (12)..(12)
610 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 12 is phosphorylated
617 <400> SEQUENCE: 12
621 Leu Ala Arg His Thr Asp Asp Glu Met Thr Gly Tyr Val Ala Thr Arg
623 1 5 10 15
629 Cys
637 <210> SEQ ID NO: 13
640 <211> LENGTH: 15
643 <212> TYPE: PRT
646 <213> ORGANISM: Homo sapiens
652 <220> FEATURE:
655 <221> NAME/KEY: MOD_RES
658 <222> LOCATION: (5)..(5)
661 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
668 <220> FEATURE:
671 <221> NAME/KEY: MOD_RES
674 <222> LOCATION: (7)..(7)
677 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 7 is phosphorylated
684 <400> SEQUENCE: 13
688 Ser Phe Met Met Thr Pro Tyr Val Val Thr Arg Tyr Tyr Arg Cys
690 1 5 10 15
696 <210> SEQ ID NO: 14
699 <211> LENGTH: 14
702 <212> TYPE: PRT
705 <213> ORGANISM: Homo sapiens
711 <220> FEATURE:
714 <221> NAME/KEY: MISC_FEATURE
717 <222> LOCATION: (8)..(8)
720 <223> OTHER INFORMATION: Xaa at position 8 is phosphoserine or phosphothreonine
727 <220> FEATURE:
730 <221> NAME/KEY: MISC_FEATURE
733 <222> LOCATION: (11)..(11)
736 <223> OTHER INFORMATION: Xaa at position 11 is arginine or lysine
743 <220> FEATURE:
746 <221> NAME/KEY: MISC_FEATURE
749 <222> LOCATION: (1)..(14)
752 <223> OTHER INFORMATION: Xaa at positions 1-5, 7, 10, and 12-14 = any one of the 20
754 acids except cysteine
761 <400> SEQUENCE: 14
765 Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa

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Input Set : A:\ES.txt
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767 1 5 10
 773 <210> SEQ ID NO: 15
 776 <211> LENGTH: 14
 779 <212> TYPE: PRT
 782 <213> ORGANISM: Homo sapiens
 788 <220> FEATURE:
 791 <221> NAME/KEY: MOD_RES
 794 <222> LOCATION: (8)..(8)
 797 <223> OTHER INFORMATION: PHOSPHORYLATION; serine at position 8 is phosphorylated
 804 <220> FEATURE:
 807 <221> NAME/KEY: MISC_FEATURE
 810 <222> LOCATION: (1)..(14) / / /
 813 <223> OTHER INFORMATION: Xaa at positions 1-4, 7, 9, and 11-14 = any one of the 20
 amino a
 815 cids except cysteine
 822 <400> SEQUENCE: 15
 W/ 826 Xaa Xaa Xaa Xaa Arg Ser Xaa Ser Xaa Pro Xaa Xaa Xaa Xaa
 828 1 5 10
 834 <210> SEQ ID NO: 16
 837 <211> LENGTH: 14
 840 <212> TYPE: PRT
 843 <213> ORGANISM: Homo sapiens
 849 <220> FEATURE:
 852 <221> NAME/KEY: MISC_FEATURE
 855 <222> LOCATION: (1)..(14)
 858 <223> OTHER INFORMATION: Xaa at positions 1-4, 7, 9, and 11-14 = any one of the 20
 amino a
 860 cids except cysteine
 867 <400> SEQUENCE: 16
 W/ 871 Xaa Xaa Xaa Xaa Arg Ser Xaa Ser Xaa Pro Xaa Xaa Xaa Xaa
 873 1 5 10
 879 <210> SEQ ID NO: 17
 882 <211> LENGTH: 14
 885 <212> TYPE: PRT
 888 <213> ORGANISM: Homo sapiens
 894 <220> FEATURE:
 897 <221> NAME/KEY: MISC_FEATURE
 900 <222> LOCATION: (8)..(8)
 903 <223> OTHER INFORMATION: Xaa at position 8 is phosphoserine or phosphothreonine
 910 <220> FEATURE:
 913 <221> NAME/KEY: MISC_FEATURE
 916 <222> LOCATION: (1)..(14)
 919 <223> OTHER INFORMATION: Xaa at positions 1-5, 7, and 10-14 = any one of the 20 amino
 acid
 921 s except cysteine
 928 <400> SEQUENCE: 17
 W/ 932 Xaa Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa
 934 1 5 10
 940 <210> SEQ ID NO: 18
 943 <211> LENGTH: 14
 946 <212> TYPE: PRT
 949 <213> ORGANISM: Homo sapiens

FYI
Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

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<210> 88

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<221> MOD_RES

<222> (10)..(10)

<223> PHOSPHORYLATION; threonine at position 10 is phosphorylated

<220>

<221> MISC_FEATURE

<222> (2)..(15)

<223> At positions 2-4, 6, 9, and 13-15, X = any amino acid except C and W; At position 8, X = any amino acid except C and W and is biased 50% to T; At position 11, X = any amino acid except C and W and is biased 50% to F; At position 12, X = any amino acid except C and W and is biased 50% to G.

← delete
← blank
lines

Per 1.823 of Sequence Rules, 4 lines MAXIMUM
for <223> response. If more lines are needed, insert
another <220> and insert a <223> line (with response)
under <220>. → The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/014,485

DATE: 01/04/2002
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L:35 M:270 C: Current Application Number differs, Replaced Current Application No
L:35 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:1301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:1378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:2027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:2298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:2375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:2506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:4420 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:4431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:4494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:4555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:4616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:4677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:4738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93
L:4797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:4856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95
L:4912 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:4945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:4953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:5012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97
L:5077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98
L:5136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100
L:5257 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:5268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:5327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:5390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:5449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104
L:5505 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:5534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105

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L:5593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106
L:5656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107
L:5715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108
L:5771 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:5782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:5857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110
L:5929 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:5940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:5948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112